

## **【CLAIMS】**

### **【Claim 1】**

A condensing apparatus of a dish washer for condensing vapor inside a dish washer tub, the condensing apparatus comprising:  
an air duct for circulating and condensing vapor from inside the tub; and  
a blower including a condenser fan for blowing air at the air duct to exchange heat with the vapor circulating inside the air duct, and a dryer fan for providing suctioning force to suction vapor from inside the tub.

### **【Claim 2】**

The condensing apparatus according to claim 1, wherein the condenser fan blows air along an outside of the air duct.

### **【Claim 3】**

The condensing apparatus according to claim 1, wherein the blower further includes a motor for driving the condenser fan and the dryer fan together.

### **【Claim 4】**

The condensing apparatus according to claim 3, wherein the motor has a rotating shaft to which both the condenser fan and the dryer fan are mounted.

### **【Claim 5】**

The condensing apparatus according to claim 1, wherein the condenser fan is disposed at a front of the blower.

### **【Claim 6】**

The condensing apparatus according to claim 1, wherein the dryer and/or the condenser fan is a cross-flow fan.

### **【Claim 7】**

The condensing apparatus according to claim 1, wherein the blower is disposed at a top of the air duct.

### **【Claim 8】**

The condensing apparatus according to claim 1, wherein the air duct includes a condensed water discharge port for discharging moisture condensed from the vapor and a split-type vapor exhaust port for exhausting vapor from which moisture has been removed.

### **【Claim 9】**

The condensing apparatus according to claim 8, wherein the air duct further includes a portion between the condensed water discharge port and the vapor exhaust port, the portion being inclined at a predetermined angle to dispose the condensed water discharge port lower than the vapor exhaust port.

### **【Claim 10】**

A condensing apparatus of a dish washer for condensing vapor inside a dish washer tub, the condensing apparatus comprising:  
an air duct for circulating and condensing vapor from inside the tub;

a dryer fan for generating suctioning force to suction vapor from inside the tub into the air duct;  
a motor for driving the dryer fan; and  
a condenser fan for blowing air at the air duct to exchange heat with the vapor circulating inside the air duct, the condenser fan driven by the motor.

**【Claim 11】**

The condensing apparatus according to claim 10, wherein the motor drives the dryer fan and the condenser fan together.

**【Claim 12】**

The condensing apparatus according to claim 11, wherein the motor has a rotating shaft to which both the dryer fan and the condenser fan are coupled.

**【Claim 13】**

The condensing apparatus according to claim 10, further comprising a blower to which the dryer fan, the motor, and the condenser fan are installed.

**【Claim 14】**

The condensing apparatus according to claim 13, wherein the condenser fan is disposed at a front of the blower.

**【Claim 15】**

The condensing apparatus according to claim 10, wherein the condenser fan blows air along an outside of the air duct.

**【Claim 16】**

The condensing apparatus according to claim 10, wherein the dryer fan and/or the condenser fan is a cross-flow fan.

**【Claim 17】**

A condensing apparatus of a dish washer comprising:  
an air duct for circulating and condensing vapor from inside a dish washer tub; and  
a condenser fan for blowing air at the air duct to exchange heat with the vapor circulating inside the air duct.

**【Claim 18】**

The condensing apparatus according to claim 17, wherein the condenser fan blows air along an outside of the air duct.

**【Claim 19】**

The condensing apparatus according to claim 17, wherein the condenser fan is disposed at a top of the air duct.

**【Claim 20】**

The condensing apparatus according to claim 17, further comprising a dryer fan providing suctioning force for suctioning the vapor into the air duct and a motor for driving the dryer fan, wherein the condenser fan is driven together with the dryer fan by the motor.